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UNITED STATES GOVERNMENT

Memorandum

OCE M75-089

TO : Director of Communications

DATE: 05 MAR 1975

FROM : Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report - February 1975

1. Much effort was expended to complete the fabrication of our first Secure Facsimile System (SF-1) to meet an early March deadline. The system will be forwarded
25X1A6a to [redacted] to fill a staff communications requirement.

25X1A5a1 2. The multitude of technical problems encountered with the [redacted] modules, used in the [redacted] and Signaling Systems, 25X1A
25X1A5a1 may be coming to an end. [redacted] representatives brought ten amplifiers to the Covert Communications Facility for testing. All units appear to meet required specification.

25X1A5a1 The SV-8 chassis/cabinet production remains reasonably on schedule. However, the [redacted] receivers and transmitters are not expected to be received until the April-May time frame due to modifications required to correct design faults.

25X1A 3. [redacted] Division representatives, along with Chief, OC-E, met with OD&E personnel to review the OC efforts required to support the upcoming [redacted] launch. 25X1A
Steps are underway to implement the required actions.

4. Vendor modifications to the MS-10 Spectrum Recording System, required to correct design deficiencies, have been completed. Following the return of the MS-10 by the vendor in early March, we will continue evaluation of the system.

5. OD&E representatives advised that the engineering models of the Digital Signaling System are on schedule and that factory acceptance testing is scheduled for April. We are in the process of reviewing and providing input to the acceptance test plan.

6. The KOI-16 Card Reader f/u/w the KW-7 has been technically evaluated by the Technical Support Branch of the Engineering Support Division. A test fixture was made and a program was written for this device to be automatically

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tested on the "FIXIT." The program will check the diodes for leaks and forward voltage drop as well as wiring errors. Several "leaky" diodes were found; however, NSA reports that even though the diodes are out of spec, this will not interfere with proper operation of the KW-7. All 1450 KOI-16 units in stock will be tested prior to issue.

7. Two additional Select-O-Shelf storage systems were ordered for delivery in April. These units will house parts and spares for the [redacted] system and support the additional ten SC-1 SKYLINK terminals under contract. 25X1A

8. Funding authority in the amount of 85K has been made available for the power upgrade and installation of 25X1A6a the new 700 KW generator at [redacted] Procurement action was initiated for a 200 KW UCPS (Uninterruptible Computer Power System) for installation at [redacted] 25X1A

9. Specifications for the RED Mux System have been completed and are undergoing final edit. The specification 25X1A5a for SC-1 terminals 40-49 is complete, and will be distributed for bids in early March. Except for the paramp, the FY-76 terminals will be the same as the FY-75 terminals. Also, the [redacted] has agreed to undertake development of a modification kit for the SC-1 demodulator which will guarantee automatic carrier acquisition, a prerequisite for RED Mux implementation.

25X1A6b 10. The ARS-II was accepted at [redacted] and placed in operational status on 22 February 1975. The ARS-III system passed pre-acceptance testing in Dallas on 13 February 25X1A6b without any difficulties. The installation of ARS-III at [redacted] is scheduled to commence on 14 April 1975. Nego- 25X1A5a1 tiations with [redacted] for ARS-IV will begin on 4 March 1975.

11. The problems of obtaining test time and diagnostic assistance from OJCS were resolved with the installation of a remote terminal in DATACOM and the delivery of a line monitoring device. The impact of all DATEX software changes requested to date was resolved with no change in the scope of the contract.

25X1A5a1 12. Problems with [redacted] on the CDS program have become more severe during February. Efforts are underway

to resolve issues which include a lack of sufficient reserve core to meet the CDS requirements, a claim from 25X1A5a1 [redacted] regarding "added scope" items, and a statement from 25X1A5a1 [redacted] that OSI will not be used as consultants.

13. The OJCS programmers have successfully modified the DCEC Network Modeling program. To help ensure that a simulation of the Agency's communications network will be fruitful, it has been decided to subdivide the effort into three phases of development. The first phase, almost complete, will just simulate the nodal-nodal traffic patterns (e.g., MAX-IA-MAX-II-MAX-III).

[redacted] 25X1A9a

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